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DATE MAILED: 07/26/2004

APPLICATION NO.	FILR	NG DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/675,659	09/	30/2003	Hidetoshi Kusano	075834.00446	075834.00446 5808		
33448	7590	07/26/2004		EXAM	EXAMINER		
ROBERT	J. DEPKE L	EWIS T. STEA	NGUYEN, TUYEN T				
HOLLAND	& KNIGHT	LLC					
131 SOUTI	H DEARBOR	.N		ART UNIT	PAPER NUMBER		
30TH FLO				2832			
CHICAGO	, IL 60603			D. 100 14 11 ED 07/04/000			

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	71
Office Action Comments	10/675,659	KUSANO, HIDETO	OSHI
Office Action Summary	Examiner	Art Unit	
	TUYEN T NGUYEN	2832	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence ad	dress
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely the mailing date of this co D (35 U.S.C. § 133)	
Status			
1) Responsive to communication(s) filed on	_•		
	action is non-final.		
3) Since this application is in condition for alloward closed in accordance with the practice under E			e merits is
Disposition of Claims			
 4) Claim(s) 2,4 and 6 is/are pending in the application 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 2,4 and 6 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or 	vn from consideration.		
Application Papers			
9)☐ The specification is objected to by the Examiner 10)☒ The drawing(s) filed on 30 September 2003 is/a Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction 11)☐ The oath or declaration is objected to by the Examiner	re: a) accepted or b) objecdrawing(s) be held in abeyance. Seed on is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CF	FR 1.121(d).
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National	Stage
Attachment(s)	_		
1) Notice of References Cited (PTO-892) Discrete Times (PTO-948) Discrete Times (PTO-948)	4)		
2) Notice of Draftsperson's Patent Drawing Review (P10-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 9/30/03.	5) Notice of Informal P		D-152)

DETAILED ACTION

Drawings

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every

feature of the invention specified in the claims. Therefore, the portions of the bottom surface

and side surface of said coil being covered by the dielectric substrate and said coil has other

portions which has a gap between a bottom surface of the coil and the substrate must be shown

or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets are required in reply to the Office action to avoid abandonment

of the application. Any amended replacement drawing sheet should include all of the figures

appearing on the immediate prior version of the sheet, even if only one figure is being amended.

The figure or figure number of an amended drawing should not be labeled as "amended." If a

drawing figure is to be canceled, the appropriate figure must be removed from the replacement

sheet, and where necessary, the remaining figures must be renumbered and appropriate changes

made to the brief description of the several views of the drawings for consistency. Additional

replacement sheets may be necessary to show the renumbering of the remaining figures. The

replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR

1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted

by the examiner, the applicant will be notified and informed of any required corrective action in

the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it

pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claim 2 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Applicant fails to disclose an adequate written description of the portions of the bottom surface and side surface of said coil being covered by the dielectric substrate and said coil has other portions which has a gap between a bottom surface of the coil and the substrate.

Claim 2 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. Applicant fails to provide an enablement of the portions of the bottom surface and side surface of said coil being covered by the dielectric substrate and said coil has other portions which has a gap between a bottom surface of the coil and the substrate.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 2, 4 and 6 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 2, applicant should clarify the arrangement of the coil relative to the substrate and the structure of "a gap" between a bottom surface of the coil and the substrate.

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Regarding claim 4, there is no antecedent basis for "said resin layer."

Regarding claim 6, there is no antecedent basis for "said plating layer."

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 2, as best understood in view of the rejections under 35 U.S.C. 112 first and second paragraph, are rejected under 35 U.S.C. 102(b) as being anticipated by Li [US 5,477,204].

Li discloses a transformer [figure 1] comprising:

- a substrate [101];
- recesses [figure 1] formed in the substrate; and
- a spiral coil structure [124, 126] formed in the substrate, wherein of the portions of the bottom surface and side surface of said coil structure being covered by the substrate and said coil has other portions which has a gap between a bottom surface of the coil and the substrate.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 4 and 6, as best understood in view of the rejections under 35 U.S.C. 112 first and second paragraph, are rejected under 35 U.S.C. 103(a) as being unpatentable over Li.

Li discloses the instant claimed invention except for the specific resin layer and material use for the coil structure.

It would have been obvious to one having ordinary skilled in the art at the time the invention was made to cover the coil structure with a resin layer for the purpose of protecting the coil structure and preventing moist.

It would have been obvious to one having ordinary skilled in the art at the time the invention was made to use copper for the coil structure for the purpose of providing good conductivity.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to TUYEN T NGUYEN whose telephone number is 571-272-1996. The examiner can normally be reached on M-F 8:30-6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, ELVIN ENAD can be reached on 571-272-1990. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TTN TN

Trujen Nguyler

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